

Title (en)

PHOSPHAZENE COMPOUND CONTAINING ESTER GROUP, PREPARATION METHOD AND USE THEREOF

Title (de)

PHOSPHAZENVERBINDUNG MIT EINER ESTERGRUPPE, HERSTELLUNGSVERFAHREN UND VERWENDUNGEN DAVON

Title (fr)

COMPOSÉ DE PHOSPHAZÈNE COMPRENANT UN GROUPE D'ESTER, SON PROCÉDÉ DE PRÉPARATION ET SON UTILISATION

Publication

EP 3263576 A1 20180103 (EN)

Application

EP 17173316 A 20170529

Priority

CN 201610508630 A 20160629

Abstract (en)

The present invention relates to a phosphazene compound containing an ester group having a structure of formula (I). The present invention grafts ester groups to phosphazene compounds and makes terminal grafted hydroxyl and carboxyl groups reacted with polymer matrix, producing an improvement of flame retardancy and a reduction of dielectric constant at the same time when the phosphazene compound is introduced into polymer matrix. Since N and P atoms are directly bonded into the polymer matrix by a reaction rather than addition and combination means in the prior art, there is no reduced mechanical properties of the matrix due to the addition of flame retardants.

IPC 8 full level

C07F 9/6593 (2006.01); **B32B 15/00** (2006.01); **H05K 1/00** (2006.01)

CPC (source: EP KR US)

B32B 9/041 (2013.01 - EP KR US); **B32B 15/00** (2013.01 - EP US); **B32B 15/08** (2013.01 - EP US); **B32B 15/14** (2013.01 - EP US); **B32B 15/20** (2013.01 - EP KR US); **B32B 27/281** (2013.01 - EP KR US); **B32B 27/36** (2013.01 - EP KR US); **C07F 9/65815** (2013.01 - EP KR US); **C08J 5/241** (2021.05 - EP US); **C08J 5/243** (2021.05 - EP KR US); **C08J 5/244** (2021.05 - EP KR US); **C08J 5/246** (2021.05 - EP KR US); **C08J 5/249** (2021.05 - EP KR US); **C08K 5/5399** (2013.01 - KR); **C09K 21/12** (2013.01 - EP KR US); **H01L 23/12** (2013.01 - KR); **H05K 1/0373** (2013.01 - EP KR US); **B32B 2260/021** (2013.01 - EP KR US); **B32B 2260/046** (2013.01 - EP KR US); **B32B 2262/101** (2013.01 - EP KR US); **B32B 2262/106** (2013.01 - EP KR US); **B32B 2307/204** (2013.01 - EP KR US); **B32B 2307/3065** (2013.01 - EP KR US); **B32B 2307/546** (2013.01 - EP KR US); **B32B 2553/00** (2013.01 - EP US); **B32B 2605/00** (2013.01 - EP US); **C08J 2363/00** (2013.01 - KR US); **H05K 1/024** (2013.01 - EP US); **H05K 2201/012** (2013.01 - EP KR US); **H05K 2201/0355** (2013.01 - KR); **H05K 2203/122** (2013.01 - EP KR US)

Citation (search report)

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